AMENDMENTS

1. (Currently amended) A document automatic classification system, comprising:

list generation means for generating a word list for each of at least two categories by extracting words from a learning document set;

unnecessary word determination means for relatively determining an unnecessary word for a category on the basis of a number of occurrences ~~a frequency of appearance~~ of a given word within at least one ~~each~~ other category by using the list generated by said list generation means; and

means for generating a document classification catalog by eliminating words determined to be unnecessary words from each of the word lists.

2. (Previously presented) The system according to Claim 1, wherein said list generation means generates a list indicating a frequency of appearance of a given word for each category.

3. (Currently amended) The system according to Claim 1, wherein said unnecessary word determination means extracts a word belonging to a given category and determines it to be an unnecessary word in response to the word having a greater number of occurrences ~~appearing more frequently~~ in another category than is allowed by a given standard.

4. (Previously presented) The system according to Claim 3, wherein the given standard is determined according to a predetermined threshold.

5. (Previously presented) The system according to Claim 1, further comprising:

document classification means for performing classification processing for classification target documents by using said document classification catalog.

6. (Currently amended) A document automatic classification system, comprising:

a classified document set storage device for storing documents classified according to at least two categories;

a category table generation unit for generating a table, the table comprising:

word lists corresponding to each of the at least two categories wherein the word lists are generated by extracting words from a learning document set; and

frequencies comprising ~~the~~ a number of occurrences ~~frequency of appearances~~ of each extracted word within the learning document set;

an unnecessary word elimination unit for eliminating an unnecessary word from a category in the table on the basis of a number of occurrences ~~a frequency of appearance~~ within at least one ~~each~~ other category of a given word, wherein said unnecessary word elimination unit extracts a word belonging to a given category and eliminates the word as an unnecessary word from said table in response to the word appearing more frequently in another category than is allowed by a given standard; and

a classification catalog storage device for storing the table from which the unnecessary word was eliminated by said unnecessary word elimination unit.

7. (Original) The system according to Claim 6, further comprising:

a classification target document storage device for storing classification target documents to be classified; and

a document classification processing unit for performing classification processing for the classification target documents stored in said classification target document storage device by using said table stored in said classification catalog storage device.

8. (Cancelled)

9. (Previously presented) The system according to Claim 6, wherein said table contains information on each word, a frequency of appearance of each word, and a part of speech of each word.

10. (Currently amended) An unnecessary word determination method in a document automatic classification system, comprising the steps of:

generating a word list for each of at least two categories by extracting words from a learning document set, the word list containing information on a frequency of appearance of each extracted

word within each category;

determining an unnecessary word for a category on the basis of ~~the~~ a relative number of occurrences ~~a frequency of appearance~~ of a given word within at least one ~~each~~ other category; and

eliminating words determined to be unnecessary words from each of the word lists.

11. (Previously presented) The method according to Claim 10, wherein, in said step of determining the unnecessary word, the unnecessary word is determined according to whether one word selected from the given category appears in said other categories more frequently than is allowed by a given standard.

12. (Previously presented) The method according to Claim 11, wherein said given standard is a value obtained from a predetermined given threshold.

13. (Original) The method according to Claim 11, wherein said given standard is determined according to said frequency of the word in said other categories and a total frequency of all words in said other categories.

14. (Currently amended) An unnecessary word determination method in a document automatic classification system, comprising the steps of:

acquiring information on words from a document set, classifying the words according to category, and storing the words in a storage device;

recognizing a number of occurrences ~~frequency of appearance~~ within at least one ~~each~~ other category of a word belonging to a given category on the basis of the acquired information;

determining whether the word is unnecessary for identifying the given category on the basis of the recognized frequency; and

generating a document classification catalog by eliminating words determined to be unnecessary words.

15. (Previously presented) The method according to Claim 14, further comprising storing said classification catalog into the storage device.

16. (Previously presented) The method according to Claim 15, further comprising the step of performing classification processing for classification target documents by using the classification catalog stored in said storage device.